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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/526,821	03/29/2005		Hiroyuki Takamura	CU-4094 RJS	1090
26530	7590	10/05/2006		EXAMINER	
LADAS & PARRY LLP				BENTON, JASON	
		AN AVENUE		ART UNIT	PAPER NUMBER
SUITE 1600	SUITE 1600 .				PAPER NUMBER
CHICAGO,	IL 6060	4		3747	
				DATE MAILED: 10/05/200	6

Please find below and/or attached an Office communication concerning this application or proceeding.

		NT					
· · · · · · · · · · · · · · · · · · ·	Application No.	Applicant(s)					
	10/526,821	TAKAMURA, HIROYUKI					
Office Action Summary	Examiner	Art Unit .	•				
	Jason Benton	3747					
The MAILING DATE of this communication app Period for Reply			•				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w.  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	I.  lely filed  the mailing date of this communication.  D (35 U.S.C. § 133).					
Status			. •				
1) Responsive to communication(s) filed on	_•						
,	action is non-final.						
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.					
Disposition of Claims							
4) Claim(s) 1-8 is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-8</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	r election requirement.						
Application Papers							
9)☐ The specification is objected to by the Examine							
10)⊠ The drawing(s) filed on <u>03 March 2005</u> is/are: a							
Applicant may not request that any objection to the							
Replacement drawing sheet(s) including the correcti	,						
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Oπice	Action or form P1O-152.					
Priority under 35 U.S.C. § 119			•				
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)☐ Some * c)☐ None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).					
<ol> <li>Certified copies of the priority documents</li> </ol>	s have been received.						
2. Certified copies of the priority documents	s have been received in Application	on No					
3. Copies of the certified copies of the prior	·	d in this National Stage					
application from the International Bureau	` "						
* See the attached detailed Office action for a list of	of the certified copies not receive	d.					
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)	•				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da						

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06)

3) Information Disclosure Statement(s) (PTO/SB/08)

Paper No(s)/Mail Date 3/29/05.

5) Notice of Informal Patent Application

6) Other: \_\_\_\_\_.

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## DETAILED ACTION

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 2, and 4-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hoffman et al.

The patent by Hoffman et al. (5,293,847) shows a high-precision sintered cam lobe part obtained by subjecting a sintering powder to compression-molding and sintering one time only or two or more times repetitively to make the powder into a predetermined form and by carrying out thermal refining of the resulting body as required, wherein the cam lobe part is made of an iron-based sintered alloy comprising one or both of 0.3 to 5.0% by weight of Ni and 0.2 to 4.0% by weight of Cu, 0.5 to 1.2% by weight of C and unavoidable impurities, which is balanced with Fe, and has a density of 7.3 g/cm3 or more, the hardness of the outer periphery of the cam lobe of 45 HRC or more and the rate of dimensional change from the molded body obtained in the final compressing process to the sintered body obtained in the final sintering process within +0.5%.

The patent by Hoffman et al. does not indicate having both nickel and copper in the composition. The patent does indicate having nickel in the cam lobe and copper in

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the cam gear. It is the view of the examiner that placing both elements in the lobewould be an obvious choice of design to maximize desired hardness and density.

Claims 3 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hoffman et al. in view of Takatoshi et al.

The patent by Hoffman et al. does not indicate using Mo in the composition. The patent by Takatoshi et al (JP11-050210) teaches that the inclusion of Mo "increases its hardenability and maintains the high dimensional precision after compression molding".

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason Benton whose telephone number is (571) 272-4838. The examiner can normally be reached on M-F 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steve Cronin can be reached on (571) 272-4536. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JB

STEPHEN K. CRONIN
SUPERVISORY PATENT EXAMINER